

VIRGINIA POLLUTION ABATEMENT APPLICATION

FORM D

MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-IV BIOSOLIDS CHARACTERIZATION FORM

1. Facility Name: Coles Point Wastewater Treatment System
2. Source or Generator: Treatment Plant
3. Type of Treatment: Biosolids treated in aerated digester then filtered
4. Biosolids Treatment Classification: B
5. Describe the method of sludge treatment or stabilization for each biosolids source. Provide a flow diagram of each wastewater treatment plant's residual treatment train and yearly biosolids production. In addition, provide the design flow of each facility.

Biosolids treated in aerated digester then filtered. Process shown on appended drawing. Production approximately 20 tons per year.

6. For all biosolids, provide at least one analysis for each parameter. The laboratory analytical data must be representative of biosolids samples collected at the frequencies specified in the table below.

Parameter	Biosolids ⁽¹⁾
Percent Solids	<u>53</u> %
Volatile Solids	<u>Unknown</u> %
pH	<u>Unknown</u> S.U.
Alkalinity as CaCO ₃ ⁽²⁾	<u>Unknown</u> mg/kg
Nitrogen, (Nitrate)	<u>unknown</u> mg/kg
Nitrogen, (Ammonium)	<u>unknown</u> mg/kg
Nitrogen, (Total Kjeldahl)	<u>5.49 (db)</u> mg/kg
Phosphorus, (Total)	<u>1.59 (db)</u> mg/kg
Potassium, (Total)	<u>0.38 (db)</u> mg/kg
Lead	<u><0.05</u> mg/kg
Cadmium	<u><0.10</u> mg/kg
Copper	<u>unknown</u> mg/kg
Nickel	<u>unknown</u> mg/kg
Zinc	<u>unknown</u> mg/kg
Arsenic	<u><0.05</u> mg/kg
Mercury	<u><0.002</u> mg/kg
Molybdenum	<u>unknown</u> mg/kg

Polychlorinated biphenols _____ unknown _____ mg/kg
 Selenium _____ <0.05 _____ mg/kg

- (1) Values reported on a dry weight basis unless indicated.
 (2) Lime treated biosolids (10% or more lime by dry weight) should be analyzed for percent CaCO_3 .

7. For Exceptional Quality Biosolids, provide at least one analysis for each parameter. The laboratory analytical data must be representative of biosolids samples collected at the frequencies specified in the table below.

See appended test reports.

Parameter	Biosolids ⁽¹⁾
Aldrin/dieldrin (total)	_____ BQL _____ mg/kg
Benzo (a) pyrene	_____ BQL _____ mg/kg
Chlordane	_____ BQL _____ mg/kg
DDT/DDE/DDD (total) ⁽²⁾	_____ BQL _____ mg/kg
Dimethyl nitrosamine	_____ BQL _____ mg/kg
Heptachlor	_____ BQL _____ mg/kg
Hexachlorobenzene	_____ BQL _____ mg/kg
Hexachlorobutadiene	_____ BQL _____ mg/kg
Lindane	_____ BQL _____ mg/kg
Toxaphene	_____ BQL _____ mg/kg
Trichloroethylene	_____ BQL _____ mg/kg

- (1) Values reported on a dry weight basis unless indicated.
 (2) Note: DDT = 2,2--Bis (chlorophenyl)--1,1,1--Trichloroethane; DDE = 1,1--Bis (chlorophenyl)--2,2--Dichloroethane; DDD = 1,1--Bis (chlorophenyl)--2,2--Dichloroethane

8. Provide at least one analysis of any other pollutants which you believe may be present in the biosolids. Upon review, additional analyses may be required by DEQ.

Note that all TCLP metals, Chlorinated pesticides, herbicides, volatiles, semi-volatiles and TPH are below QL _____

Biosolids Sampling Frequency

Amount of biosolids ⁽¹⁾ (metric tons per 365-day period)	Frequency
Greater than zero but less than 290	Once per year
Equal to or greater than 290 but less than 1,500	Once per quarter (four times per year)
Equal to or greater than 1,500 but less than 15,000	Once per 60 days (six times per year)

Equal to or greater than 15,000	Per month (12 times per year)
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- ⁽¹⁾ Either the amount of bulk biosolids applied to the land or the amount of biosolids received by a person who prepares biosolids that is sold or given away in a bag or other container for application to the land (dry weight basis).

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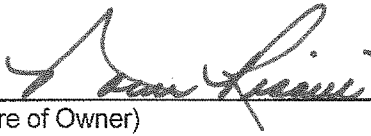
FORM D

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PART D-V NON-HAZARDOUS WASTE DECLARATION

For waste to be land applied, the owner, as defined by 9 VAC 25-32, must sign the following statement.

I certify that the waste described in this application is non-hazardous and not regulated under the Resource Conservation and Recovery Act or the Virginia Hazardous Waste Management Regulation (9 VAC 20-60).



(Signature of Owner) Date: 4-22-13